

# **EXHIBIT 155**

3/3/2025

Richard Kadrey, et al. v. Meta Platforms, Inc.  
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UNITED STATES DISTRICT COURT  
NORTHERN DISTRICT OF CALIFORNIA  
SAN FRANCISCO DIVISION

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RICHARD KADREY, ET AL., )  
Individual and Representative )  
Plaintiffs, ) Lead Case No.  
v. ) 3:23-cv-03417-VC  
META PLATFORMS, INC., )  
Defendant. )  
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\* \* \* HIGHLY CONFIDENTIAL \* \* \*  
\* \* \* ATTORNEYS' EYES ONLY \* \* \*  
VIDEO-RECORDED 30(b)(6) DEPOSITION OF  
MICHAEL CLARK (mitigation)  
MONDAY, MARCH 3, 2025  
DENVER, COLORADO  
2:59 P.M. MST

REPORTED BY KATHY L. DAVIS, CRR, CMR

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1 repetitive and duplicative." Repetitive was the  
2 first bullet.

3 Q Mm-hmm.

4 A And then duplicative and repetitive are  
5 kind of the same.

6 Q Mm-hmm.

7 A My phrase in my prior testimony feels  
8 incomplete, but please ask your question.

9 Q So for the examples of filter data and  
10 repetition, he provides copyright information as  
11 repetitive data, he provides personal identifying  
12 information as repetitive data, right?

13 A We did miss a few bullets, Remove  
14 excessive new line crack terms and Remove documents  
15 in the token distribution tool.

16 Q Mm-hmm.

17 A Um -- I'm still unclear on the question.  
18 I apologize.

19 Q My question is that when you're talking  
20 about this script that he wrote to remove data that  
21 had a higher likelihood of being regurgitated, among  
22 the repetitive data that he removes is also --  
23 it's -- is copyright data; is that correct?

24 A Um, among the data that's being removed,  
25 the repetitive and duplicative data has a higher

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1 likelihood of being regurgitated. The copyright  
2 information and line spacing and emails, part of that  
3 is for preventing regurgitation, but also just  
4 general stability of the model from -- from a  
5 language perspective.

6 Q Okay.

7 MS. POUEYMIROU: Can we turn to Tab 15.

8 This will be 14, Exhibit 14.

9 (Clark Exhibit 14, marked for  
10 identification.)

11 Q (BY MS. POUEYMIROU) Are you familiar  
12 with this document, Mr. Clark?

13 A I don't remember this document.

14 Q Are you familiar with Meta's source  
15 metadata project?

16 A Let me read this to see if I am.

17 MS. POUEYMIROU: How much time?

18 VIDEOGRAPHER: 50 minutes.

19 MS. POUEYMIROU: 5-0?

20 VIDEOGRAPHER: (Nodded.)

21 MS. POUEYMIROU: Thought it was 10.

22 Almost gave me a heart attack.

23 (A discussion was had off the record.)

24 A Okay.

25 Q (BY MS. POUEYMIROU) Okay. So the

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1 concern about source metadata leaking leads to Meta  
2 employees talking about whether it can be hashed or  
3 unhashed in use cases; is that correct?

4 A More than just source metadata leaking as  
5 potential harm. What's -- what's the question?

6 Q My question is, they're trying to figure  
7 out a safe way to train and source metadata without  
8 risking IP or brand safety. Is that -- is that fair  
9 to say?

10 MR. WEINSTEIN: Object to form.

11 A With the -- going back to Exhibit 13, it  
12 is much more than just leakage of info. It is also  
13 training stability and performance, that what does  
14 either the hash or the raw metadata introduce from  
15 a -- from a instability perspective into the model?

16 Q (BY MS. POUEMYIROU) Okay. I recognize  
17 that, but another consideration is about IP and brand  
18 safety; is that correct?

19 A That is one of the three that is listed.

20 Q Okay. And so the document that you now  
21 have before you -- this is Exhibit 14 -- is entitled  
22 Source Metadata Strategy. Do you see that?

23 A I do see that.

24 Q And I had some questions about that.

25 First, are you familiar with this source metadata

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1 project at Meta?

2 A Personally, I was familiar that this was  
3 a -- this was work that was being evaluated.

4 Q And why were you personally familiar with  
5 that?

6 A Just in -- working in generative AI and  
7 seeing other -- other projects that were in flight is  
8 how I'm familiar -- or were in the works is why I was  
9 familiar with it.

10 Q And how did you understand the project?

11 A I understood the project as, Could adding  
12 source metadata to the model help validate where we  
13 see issues or regression in certain types of  
14 performance, know where that came from, but also from  
15 an academic perspective in trying to get to a place  
16 to where as -- the question of, Was Abraham Lincoln a  
17 president, where that knowledge came from.

18 Q So the -- the metadata that Nikolay  
19 Bashlykov had stripped from LibGen, for example, was  
20 metadata that Meta is now considering how it can  
21 safely train on; is that correct?

22 MR. WEINSTEIN: Object to form.

23 A The data that Mr. Bashlykov's script  
24 removed was a subset of the overall data that was  
25 being tested and evaluated as part of the source

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1 metadata strategy. However, in looking and comparing  
2 this data, the data in Mr. Bashlykov's were where  
3 lines contained that --

4 (Weather noise was heard.)

5 THE DEPONENT: Is that all wind?

6 MS. POUEYMIROU: It sounds like it.

7 MR. WEINSTEIN: Okay.

8 A Okay. Apologies. To get back to  
9 answering the question, what Mr. Bashlykov stripped  
10 out were individual lines --

11 Q (BY MS. POUEYMIROU) Mm-hmm.

12 A -- but not actually the full set of  
13 metadata or source metadata that would have been  
14 needed to have filled in -- and if I look at the  
15 example, Title, Type, Host Name, URL, Date,  
16 Generator, Source, Media --

17 Q Mm-hmm.

18 A -- Media Bias, and other information to  
19 fill out the metadata fields.

20 Q So what's the URL when you are -- you've  
21 gotten your data from LibGen? Will that be in the  
22 URL?

23 A This was -- the section I just read was  
24 specific to Common Crawl.

25 Q Okay. And so if you go to the next page,

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1 documents from other URLs?" What is this concern  
2 about people figuring out the hash associated with  
3 Wikipedia?

4 MR. WEINSTEIN: Object to form.

5 A I would have to speculate that the harm  
6 is going back to releasing information about the data  
7 mix that was used to build out the model. I believe  
8 that comment was from Eric Smith, not Soumya.

9 Q (BY MS. POUEMYIROU) Oh, it looked like  
10 it was on the back.

11 A Oh, I was on 81207.00005.

12 Q Yeah.

13 A Okay. Eric Smith had made that comment,  
14 just for accuracy.

15 Q Oh, okay.

16 So the leakage of source metadata  
17 exposing to the public what Meta had trained on --

18 MR. WEINSTEIN: Object to form.

19 A The proprietary data mix that was used  
20 for developing the model.

21 Q (BY MS. POUEMYIROU) And what do you mean  
22 by "proprietary data mix"?

23 A The combination of data that was  
24 developed -- the combination of data -- the exact  
25 combination of data that was used to train the model.

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1 Q How would -- how would a person know the  
2 combination or the data mix of your data --

3 MR. WEINSTEIN: Object to form.

4 A I --

5 Q (BY MS. POUEYMIROU) -- as opposed to  
6 just data that was trained on?

7 MR. WEINSTEIN: Object to form.

8 Q (BY MS. POUEYMIROU) I have always  
9 thought of data mix in this case as how much of one  
10 data mix compared -- one dataset compared to another.  
11 Are you just talking about the data that Meta trained  
12 on being released to the public?

13 A The com- -- the exact combination of what  
14 datasets and/or data Meta trained on for that model.

15 Q How does the -- how does the training on  
16 the title and author of a work --

17 MR. WEINSTEIN: Object to form.

18 MS. POUEYMIROU: I didn't finish.

19 MR. WEINSTEIN: Oh, sorry. Sorry about  
20 that.

21 Q (BY MS. POUEYMIROU) -- expose a data  
22 mix?

23 MR. WEINSTEIN: Object to form, scope.

24 A The -- only the -- as the motivation  
25 said, the reason that you would train on it is to

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1 make it available from an explainability or to  
2 improve the quality from a factuality perspective.

3                   And so there's no sense in training -- in  
4 adding additional data that can't be used, which  
5 therefore exposes that data.

6                 Q       (BY MS. POUEYMIROU) So I'm trying to  
7 understand, though, your point about proprietary  
8 datasets. Are you saying that LibGen is Meta's  
9 intellectual property and if training on source  
10 metadata from LibGen, which then gets regurgitated,  
11 it would expose?

12               MR. WEINSTEIN: Object to form.

13               A       Just to -- I believe that's a  
14 misclarification of the phrase that I used. It's the  
15 proprietary data mix, the combination of what data  
16 was used to train not the data itself being  
17 proprietary.

18               Q       (BY MS. POUEYMIROU) So you're saying the  
19 fact that Meta trained on Common Crawl and Wikipedia  
20 and Substack and Archive and . . . You're saying  
21 that is the concern, that that would be released to  
22 the public?

23               MR. WEINSTEIN: Object to form.

24               A       That would be a -- that is a potential  
25 example, yes.

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1 Q (BY MS. POUEYMIROU) But didn't Meta  
2 speak openly about its use of Common Crawl and other  
3 datasets in its published papers?

4 MR. WEINSTEIN: Object to form. Outside  
5 the scope.

6 A It only spoke about that in LLaMA 1,  
7 which was a research release only, and not in any  
8 other models after. That was the one mitigation that  
9 I forgot in my list when I read them off, was that --  
10 to not share that data mix, to not share the data mix  
11 as part of one of the mitigations.

12 Q (BY MS. POUEYMIROU) Okay. And so your  
13 testimony is that by removing the source metadata,  
14 Meta was able to conceal what it trained on because  
15 by training on source metadata, the regurgitation  
16 risk was higher?

17 MR. WEINSTEIN: Object to form.

18 A I believe that's a mischaracterization of  
19 my testimony as the source metadata document that was  
20 listed here was adding additional data into the  
21 training mix and not taking it out.

22 Q (BY MS. POUEYMIROU) Was that --

23 A And --

24 Q -- because it had first been taken out?

25 MR. WEINSTEIN: Object to form.

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1           A       This -- sorry. I wasn't complete with my  
2 answer. Do you mind asking the original question?

3           Q       (BY MS. POUEYMIROU) Sure. The decision  
4 to add source metadata to training is predicated on  
5 the fact that Meta had already removed source  
6 metadata --

7                   MR. WEINSTEIN: Object to form.

8           Q       (BY MS. POUEYMIROU) -- from training; is  
9 that right?

10                  MR. WEINSTEIN: Sorry. Object to form.  
11 Lacks foundation.

12           A       If I look at the examples from -- which  
13 were in 65250 from what Mr. Bashlykov had removed,  
14 this information is incomplete in how it's structured  
15 and was not trained in a structured way that could  
16 have been used in the same way as the source metadata  
17 strategy. This was removing specific things where  
18 they were placed in the doc that were not structured  
19 or in a way that could actually help what the  
20 motivation of the test that was being done around the  
21 source metadata strategy was, which, to the best of  
22 my knowledge, was not actually pursued because of  
23 challenges it created in both the performance and  
24 stability of the model when it was added.

25           Q       (BY MS. POUEYMIROU) And also with

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1 respect to --

2 A The reasons it was not chosen is it  
3 created too much regression, added too much  
4 additional volume, which you can see reflected in the  
5 comments of data that wasn't actually usable as part  
6 of inference and was therefore not pursued because of  
7 the challenges around performance and stability of  
8 the model.

9 Q You're saying that with respect to  
10 personal identifying information too? That was why  
11 it was removed?

12 MR. WEINSTEIN: Object to form.

13 A We were just talking about the source  
14 metadata strategy project, which was explicitly  
15 adding multiple structured fields into the model.  
16 The PII that was removed as part of Mr. Bashlykov's  
17 script was to prevent repetitive personal information  
18 from being able to be regurgitated about private  
19 individuals. That might have been email or other  
20 kinds of PII.

21 Q (BY MS. POUEYMIROU) And the use of that  
22 script to remove the copyright information was also a  
23 regurgitation concern?

24 MR. WEINSTEIN: Object to form.

25 A That was both regurgitation, plus the

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1 repetitive characters of copyright and the C -- the  
2 copyright mark -- copymark would affect the  
3 performance of the model as well because that would  
4 be very much repetitive and become part of outputted  
5 responses, but not necessarily adjacent to  
6 copyrighted information.

7 Q (BY MS. POUEYMIROU) Okay.

8 MS. POUEYMIROU: Can we pull out 23.

9 (Clark Exhibit 15, marked for  
10 identification.)

11 A Are we switching topics?

12 Q (BY MS. POUEYMIROU) We're switching  
13 documents.

14 A Okay.

15 Q The topic is mitigation, though. Now,  
16 this is a multipage document. I'm only going to be  
17 asking about parts later on, so just take your time.

18 MS. POUEYMIROU: This is Exhibit --

19 THE REPORTER: 15.

20 Q (BY MS. POUEYMIROU) -- 15. All right.

21 I want to look at the page ending in 2225. Do you  
22 want to take a look at that page?

23 MS. POUEYMIROU: How much time do we  
24 have?

25 VIDEOGRAPHER: 24 minutes.

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1 STATE OF COLORADO )

2 )ss. REPORTER'S CERTIFICATE

3 COUNTY OF DENVER )

4 I, Kathy L. Davis, do hereby certify that I am a  
5 Registered Professional Reporter within the State of  
6 Colorado; that previous to the commencement of the  
7 examination, the deponent was duly sworn to testify  
8 to the truth.

9 I further certify that this deposition was taken  
10 in shorthand by me at the time and place herein set  
11 forth, that it was thereafter reduced to typewritten  
12 form, and that the foregoing constitutes a true and  
13 correct transcript.

14 I further certify that I am not related to,  
15 employed by, nor of counsel for any of the parties or  
16 attorneys herein, nor otherwise interested in the  
17 result of the within action.

18 In witness whereof, I have affixed my signature  
19 this 4th day of March, 2025.

20

21



22

Kathy L. Davis

Certified Realtime Reporter

23

24

25